CORRECTED VERSION

PATENT COOPERATION TREATY

PCT

REC'D 2 2 JUN 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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PO	PCT

Applicant's or agent's file reference PCTAU0201594:MLT:GP	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).		
International Application No.	International Filing Dat (day/month/year)	Priority Date (day/month/year)		
PCT/AU2002/001594	27 November 2002	27 November 2002		
International Patent Classification (IPC) or	national classification an	d IPC		
Int. Cl. 7 C07C 67/08, 69/34				
Applicant				
BIODIESEL AUSTRALIA Pty I	Ltd et al			
This international preliminary examination is transmitted to the applicant according		ared by this International Preliminary Examining Authority and		
2. This REPORT consists of a total of 4	sheets, including this co	over sheet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of	of sheet(s).			
3. This report contains indications relating	g to the following items:			
I X Basis of the report				
· II Priority				
III Non-establishment of op	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of invention	IV Lack of unity of invention			
	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI. X Certain documents cited	VI X Certain documents cited			
VII Certain defects in the int	n the international application			
VIII Certain observations on the international application				
Date of submission of the demand Date of completion of the report				
•		3 June 2004		
Name and mailing address of the IPEA/AU	A	Authorized Officer		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	1	K. LEVER		
· Te		Telephone No. (02) 6283 2263		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2002/001594

I.	I. Basis of the report				
1.					
	X the international application as originally filed.				
	the description, pages, as originally filed,				
	pages, filed with the demand,	•			
	pages, received on with the letter of				
	the claims, pages, as originally filed,				
	pages , as amended (together with any statement) under Artic	le 19,			
	pages, filed with the demand,	•			
	pages, received on with the letter of				
	the drawings, pages, as originally filed,				
	pages, filed with the demand,				
	pages, received on with the letter of	•			
	the sequence listing part of the description:				
	pages, as originally filed				
	pages , filed with the demand				
2	pages, received on with the letter of				
2.	 With regard to the language, all the elements marked above were available or furnished twhich the international application was filed, unless otherwise indicated under this item. 	to this Authority in the language in			
	These elements were available or furnished to this Authority in the following language	which is:			
	the language of a translation furnished for the purposes of international search (unc	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).			
	the language of publication of the international application (under Rule 48.3(b)).				
	the language of the translation furnished for the purposes of international prelimina and/or 55.3).	ry examination (under Rules 55.2			
3.	and/or annio acid sequence disclosed in the international	l application, the international			
	preliminary examination was carried out on the basis of the sequence listing:	11			
	contained in the international application in written form.				
	filed together with the international application in computer readable form.				
	furnished subsequently to this Authority in written form.	·			
	furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go international application as filed has been furnished.				
	The statement that the information recorded in computer readable form is identical been furnished	to the written sequence listing has			
4.	The amendments have resulted in the cancellation of:				
	the description, pages				
	the claims, Nos.				
	the drawings, sheets/fig.				
5.	i i i i i i i i i i i i i i i i i i i	, since they have been considered to			
*	go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2)				
	Replacement sheets which have been furnished to the receiving Office in response to an invitatio report as "originally filed" and are not annexed to this report since they do not contain amendm	n under Article 14 are referred to in this ents (Rules 70.16 and 70.17).			
**	* Any replacement sheet containing such amendments must be referred to under item 1 and annexe				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2002/001594

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	1. Statement			
	Novelty (N)	Claims 1-13	YES	
		Claims	NO	
	Inventive step (IS)	Claims 1-13	YES	
		Claims	NO .	
	Industrial applicability (IA)	Claims 1-13	YES	
		Claims	NO	

2. Citations and explanations (Rule 70.7)

EP 249,463 A2 (BIO-ENERGY TECHNOLOGY LTD)

This document discloses a process similar to that of the current invention where a bio-fuel is produced from a triglyceride containing substance like vegetable and seed oils. Firstly an acid catalyst in an alcohol environment is added to the triglyceride substance affecting an esterification of the free fatty acids to methyl esters.

In the next step a basic catalyst dissolved in alcohol is added to achieve further esterification. Finally Phosphoric acid and a washing mixture added to allow separation of the phases. The ester phase can then be removed. There is also a optional step after the second esterification where glycerol is removed.

This process differs from the one of the current invention in that it does not require the washing step and that the alcohol is removed by distillation after the second esterification. The current process also avoids the production of the by-product glycerol.

AU 80742/91 A1(VOGEL & NOOT INDUSTRIEANLAGENBAU GESELLSCHAFT M.B.H)

This document also discloses an esterification process of fatty acids in the presence of alcohols and a basic catalyst. However there is no esterification with an acid catalyst. This process also requires the step to separate out the glycerol produced as a by-product.

Thus it is considered that the claims are Novel, involve an Inventive Step and are Industrially Applicable.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2002/001594

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VI.	Certain documents cited			
1.	Certain published documents (Ru	ıle 70.10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	AU 44481/02	5 December 2002	31 May 2002	31 May 2001
			•	
				•
This	s document while published at vant under Australian Law, th	fter the filing date of currence are no other foreign a	ent application has an earli	er priority date and will be
1010	vant under Australian Law, til	ere are no onier toreign e	quivalents.	·
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		•		
2.	Non-written disclosures (Rule 70	.9)		•
	Kind of non-written disclosure		ritten disclosure Da	te of written disclosure referring to
	•		onth/year)	non-written disclosure .
				(day/month/year)
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